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Status and perspectives of particle dark matter searches with radio observations

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Annihilations or decays of WIMPs in dark-matter (DM) halos can produce high-energy electrons and positrons, which in turn give rise to synchrotron radiation via their interaction with the interstellar magnetic field. The emission typically peaks in the radio band, which is thus a promising range of photon wavelengths for indirect DM searches.

I will discuss recent results in the search for DM-induced radio signals in dwarf spheroidal galaxies and in the intensity and anisotropies of the extragalactic radio background.

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